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EQUIPMENT DISCOVERY, AND RESOURCE
ALLOCATION****Publication Classification**

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CIERNY**, Helsinki (FI)(73) Assignee: **Nokia Corporation**, Espoo (FI)(21) Appl. No.: **14/266,809**(22) Filed: **Apr. 30, 2014****Related U.S. Application Data**

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(57) **ABSTRACT**

Device discovery may be important in a variety of communication systems including, for example, wireless communication systems. Thus, certain embodiments may provide a device to device beacon design that may provide for efficient interference management and resource allocation. For example, a method may include preparing a proximity communication request including information about a device to device communication state of a discovered user equipment or resource usage of the discovered user equipment. The method may also include transmitting the proximity communication request to a base station.

